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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/886,940	06/21/2001	Hyoung June Kim	B-4227 618899-5	4874
7590 02/25/2004			EXAMINER	
LADAS & PARRY			VAN, QUANG T	
Suite 2100 5670 Wilshire E	Boulevard		ART UNIT	PAPER NUMBER
Los Angeles, CA 90036-5679		*	3742	
		v	DATE MAILED: 02/25/2004	4

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
	09/886,940	KIM, HYOUNG JUNE					
Office Action Summary	Examin r	Art Unit					
	Quang T Van	3742					
The MAILING DATE of this communication appears on the cover sheet with the corr spond nce address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPL' THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a repl - If NO period for reply is specified above, the maximum statutory period of Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may y within the statutory minimum of will apply and will expire SIX (6) N , cause the application to become	a reply be timely filed thirty (30) days will be considered timely. ONTHS from the mailing date of this communication. ABANDONED (35 U.S.C. § 133).					
Status							
1) Responsive to communication(s) filed on 18 D 2a) This action is FINAL . 2b) This 3) Since this application is in condition for alloware closed in accordance with the practice under E	action is non-final. nce except for formal m						
Disposition of Claims							
4) ☐ Claim(s) 1-16 is/are pending in the application 4a) Of the above claim(s) 10-16 is/are withdray 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-9 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or	vn from consideration.						
Application Papers							
9)☐ The specification is objected to by the Examine 10)☐ The drawing(s) filed on 21 June 2001 is/are: a Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11)☐ The oath or declaration is objected to by the Examine 11.)⊠ accepted or b)⊡ ol drawing(s) be held in abe tion is required if the draw	vance. See 37 CFR 1.85(a). ng(s) is objected to. See 37 CFR 1.121(d).					
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Burea * See the attached detailed Office action for a list	s have been received. Is have been received in Inity documents have be u (PCT Rule 17.2(a)).	n Application No en received in this National Stage					
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	Paper I	w Summary (PTO-413) lo(s)/Mail Date of Informal Patent Application (PTO-152) 					

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Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- Claims 1-7 are rejected under 35 U.S.C. 103(a) as being unpatentable over 2. Voutsas (US 5,827,773) in view of Sasaki et al (US 5,970,368) recited in previous action. Voutsas discloses method for turning amorphous silicon in to polycrystalline silicon including solid phase crystallization is a method of crystallization in a furnace having amorphous silicon film and transparent glass substrate mounted on a relative low temperature heated susceptor (col. 2, lines 17-33). However, Voutsas does not disclose semiconductor film is heated by induction coil. Sasaki discloses a method for manufacturing polycrystal semiconductor film comprising the steps of installing an induction coil (4) in close proximity of a semiconductor film (9) on a non-conducting substrate (7), said induction coil (4) being disposed so that the electrical current direction is aligned parallel to the in-plane direction of said semiconductor film (figure 6); and introducing an alternating electrical current in said induction coil to generate an alternating magnetic field through said semiconductor film (col. 3, lines 37-42). It would have been obvious to one having ordinary skill in the art at the time the invention was made to utilize in Voutsas semiconductor film is heated by induction coil as taught by Sasaki in order to provide a uniform heat throughout the semiconductor film

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3. Claims 8-9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Voutsas (US 5,827,773), in view of Sasaki et al (US 5,970,368) and further in view of Arima et al (US 4,926,793) also previously recited. Voutsas /Sasaki disclose substantially all features of the claimed invention except said susceptor being made of metal or graphite. Arima discloses a susceptor being made of metal or graphite (col. 10, lines 13-15). It would have been obvious to one having ordinary skill in the art at the time the invention was made to utilize in Voutsas /Sasaki a susceptor being made of metal or graphite as taught by Arima in order to absorb heat by the alternating magnetic field through induction heating.

Response to Amendment

- 4. Applicant's arguments with respect to amended claims 1-9 have been considered but are most in view of the new ground(s) of rejection.
- 5. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

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the advisory action. In no event, however, will the statutory period for reply expire later

than SIX MONTHS from the date of this final action.

6. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Quang T Van whose telephone number is 703-306-

9162. The examiner can normally be reached on 8:00Am 7:00Pm M-Th.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Ehud Gartenberg can be reached on 703-308-2634. The fax phone number

for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR.

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you have guestions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free).

OV

February 23, 2004

Quang T Van

Primary Examiner

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